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3058 Research Drive

State College, Pennsylvania 16801 USA

Telephone: 814.272.1039 Fax: 814.272.1019

Report of Analysis

Fluorochemical Characterization of Aqueous Samples

Project Name: P0005537

MPI Research Laboratory Report No. L0020423

Testing Laboratory

MPI Research, Inc. 3058 Research Drive State College, PA 16801

Requester

Tracey Hall
AECOM Inc.
1360 Peachtree St NE #500
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6 Signatures

Robert Zhu, Manager, Analytical

Date



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 12 - 022410

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0 99 2 ^{1,2}	0.025	3/12/2010
PFOS- Perfluorooctanesulfonate	0.339	0.010	3/10/2010

¹ The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve

because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 12 - 022410 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.122 ^{1,2}	0.025	3/12/2010
PFOS- Perfluorooctanesulfonate	0.364	0.010	3/10/2010

¹ The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 9 - 022410

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0381	0.010	3/10/2010



Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 9 - 022410 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0426	0.010	3/10/2010



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 7 - 022410

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0457 ^{1,2, 3}	0.025	3/12/2010
PFOS- Perfluorooctanesulfonate	0.0317	0.010	3/11/2010

¹ The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.

³ The low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 7 - 022410 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0285 1,2, 3	0.025	3/12/2010
PFOS- Perfluorooctanesulfonate	0.0297	0.010	3/11/2010

¹ The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.

³ The low Field Matrix Spike recovery was outside the acceptance criteria of 70-130%.



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 6 - 022410

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0599	0.010	3/11/2010



Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 6 - 022410 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0547	0.010	3/11/2010



Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 10 - 022410

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0485	0.010	3/11/2010



Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 10 - 022410 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0434	0.010	3/11/2010



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Report of Analysis

Fluorochemical Characterization of Aqueous Samples

Project Name: P0005537

MPI Research Laboratory Report No. L0020468

Testing Laboratory

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Requester

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6	Signatures
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Robert Zhu, Manager, Analytical Date



Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 5 - 030210 **Date Analyzed**: <u>03/15/10</u>

Analyte	Result (ng/mL)	LOQ (ng/mL)
PFOS- Perfluorooctanesulfonate	< 0.010	0.010



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 5 - 030210 Duplicate

Date Analyzed: <u>03/15/10</u>

Analyte	Result (ng/mL)	LOQ (ng/mL)
PFOS- Perfluorooctanesulfonate	< 0.010	0.010



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Report of Analysis

Fluorochemical Characterization of Aqueous Samples

Project Name: P0005537

MPI Research Laboratory Report No. L0020664

Testing Laboratory

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6 Signatures

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Gary Oden Jr., Research Chemist Associate II	Date
Wate	4/6/00
Robert Zhu, Manager, Analytical	Ďate

Other Lab Members Contributing to Data:

Ellen Dashem.



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: <u>Well 13 - 031710</u> Date Analyzed: <u>04/02/10</u>

Analyte	Result (ng/mL)	LOQ (ng/mL)
PFOS- Perfluorooctanesulfonate	0.0843	0.010



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Analytical Report

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 13 - 031710 Duplicate

Date Analyzed: 04/02/10

Analyte	Result (ng/mL)	LOQ (ng/mL)
PFOS- Perfluorooctanesulfonate	0.0743	0.010